RADUSCEK, K.

Yugoslavia (430)

Agriculture-Plant and Animal Industry

Organization of work in a forest nursery. p. 297. SUMARSKI LIST. Vol. 75. no. 8-10, Aug.-Oct. 1951.

East European Accessions List. Library of Congress, Vol. 2, no. 3, March 1953. UNCLASSIFIED.

RYSHKINA, T.A., assistant.; RADUSHEV. V.I., assistant.

Composition of precipitates settling in the distiller during soda ash production. Nauch. trudy NPI 26:276-281 '55. (MIRA 9:12) (Soda industry)

The Problem of the Mineralogy of the Roof and Floor Rocks of the Coal Layers in the Donbass (Donets Basin)

monothermite, pyrophyllite, dispersed quartz, gibbsite, and nontronite. The hydromicas of the illite type consistently show endothermic reactions at 120° to 180° and 540° to 560° on all the thermal curves. Depending on the ratio of R0 to R<sub>2</sub>O<sub>3</sub>, illites may be subdivided into alkaline-R0:R<sub>2</sub>O<sub>3</sub> < 0.15, normal-R0:R<sub>2</sub>O<sub>3</sub> = 0.15-0.70, and alkaline earth-R0:R<sub>2</sub>O<sub>3</sub> > 0.70. It was ascertained that alkaline-earth illite is confined to the roof rocks, alkaline illite to the coal beds. Normal illite is present both in the roof rocks and in the floor rocks. Nontronite, pyrophyllite, and monothermite were discovered only in soil from the coal beds. Non-clay minerals in the argillites are present in insignificant quantities and do not differ in composition from those in other clastic rocks of the Donbass. In order to solve the problem of the facies conditions of accumulation of the roof rocks and floor rocks of the coal beds, it is necessary to make broader studies of the mineral composition of the argillaceous rocks enclosing the coal layers. Ye. V. Ostrovskaya

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001343

20-1-49/64

RADUSHEV, V.I.

AUTHOR

TITLE

On the Chemogeneous Formation of Carbonates in Rivers of the Arid Zone. (O khemogennom karbonatoobrazovannii v rekahh aridnoy zony - Russian) Doklady Akademii Nauk SSSR, 1957, Vol 114, Nr 1, pp 180-181 (U.S.S.R.)

PERIODICAL

ABSTRACT

The author of the paper under review investigated with greatest accuracy numerous samples concerning present sediments in the river beds of the Don and the Volga. The samples contained in addition to the common (typical) forms of CaCO3 also very small acicular and laminar crystals and spherulites of the carbonates. On basis of his detailed investigations the author of the paper under review draws the following conclusions: There is no doubt that in the lower parts of the rivers of the arid kone there takes place the process of the chemogeneous formation of carbonates. From a morphological point of view, this carbonate differs in no way from the analogous forms of the carbonate which are known to us(marine deposits). Therefore it is of the utmost importance to take into consideration the additional substance(coming from the river) because otherwise we speak of marine formation of carbonate'. (4 reproductions). Not Given.

ASSOCIATION

PRESENTED BY SUBMITTED

AVAILABLE Card 1/1

Library of Congress

20-2-49/60

AUTHOR:

Radushev, V. I.

TITLE:

On the Mineralogical Composition of the Solid Portion of the Don River Outlet (O mineralogicheskom sostave tverdoy

chasti stoka r. Dona )

PERIODICAL:

Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 2, pp.411-413 (USSR)

ABSTRACT:

The Don River feeds the Axov Sea not only with dissolved substances but also with sclid bed load. Data on this solid bed load are almost entirely lacking. Before the regulation of the Don River was carried out, the author of the paper under review investigated numerous samples of recent river--bed alluvium near the mouth of the river. Table Nr 1 of the present paper contains a compilation of the mineralogical composition of the "sandy-aleuritic" part and of the "pelitic" part of the deposits. The bed load of the Don consists of approximately forty minerals. The diversity of minerals in the sandy-aleuritic fraction is surprising. In addition to the constant complex of minerals (quarts, mirconium, rutile,

Card 1/3

20-2-49/60

On the Mineralogical Composition of the Solid Portion of the Don River Outlet and others) we also find there minerals with weak resistance

against weathering, both rock-forming and accessory (hornblende, pyroxenes, biotite, apatites and others). They probably come fracture material of the loesslike rock at the Don. The loesslike clay soils contain larger amounts of analogous unstable minerals which during the Old Quaternary were carried away from the area of Glacial abrasion. An almost complete absence of protoxide-iron combinations (pyrite, marcasite, siderite, and others) is characteristic. This is connected with the high capacity of oxidation of the Don water which has an absolute  $0_2$  concentration of 7.29 - 15.5 mg/l. Here the annual average of the pH fluctuates between 7.5 and 7.9. Under these circumstances, the ion of the bivalent iron is strongly soluble. Among the clay minerals, the hydromicas of the type of the illite and montmorillonite are found most frequently. They come mainly from the washed--out Quaternary loesslike and "scythic" clays, which are far developed at the lower Don. Closer to the center of the drainage area of the Don, monothermite is the main mineral. In the northern part of the drainage area of the Don, in the Devonian, Carbonifeous, and Cretaceous, kaolinite was found everywhere. This gives cause to the assumption that when

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20-2-49/60

On the Mineralogical Composition of the Solid Portion of the Don River Outlet

Movocherkasskiy kaolinite is transferred into the arid zone, it is partially transformed into montomorillonite and illite. The alkaline

milieu conditions prevailing at the lower Don lead to the hydration of the clayey minerals and favor in them the solidification of alkaline and alkaline-earthy elements by sorption processes. This explains the almost complete absence of kaolinite in the bed load of the Don, and also the prepon. derance of alkaline complexes of the clayey minerals. There are 1 table and 13 references, all of which are Soviet.

Novocherkassk Polytechnical Institute imeni S. Ordzhonikidze ASSOCIATION:

(Novocherkasskiy politekhnicheskiy institut im. S. Ordzhoni-

kidze)

Hovember 27, 1956, by N. M. Strakhov, Member of the Academy PRESENTED:

November 12, 1956 SUBMITTED:

Library of Congress AVAILABLE:

Card 3/3

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RADUSHAU, U.T

- AUTHORS:

Radushev, V. I., Robilev, A. G.,

20-1-45/58

TITLE:

Data on the Diagenesis of Alluvial Deposits of the Arid Zone of Sedimentation (K poznaniju diageneza allyuvial'nykh osadkov ari-

ano, zon, sedimentatsii)

PERIODICAL:

Loklady AN SSSR, 1958, Vol. 118, Nr 1, pp. 166-163 (USSR)

ABSTRACT:

Most of the aluvial deposits are during a large lart of the year under subaerial conditions. In numerous samples of various facies of the recent alluvium of the bon and tributaries, as well as of the Volga, the authors determined some peculiarities of the diagenesis as described in the title. The water near to the ground possesses a high capability of oxidation (reference 1), therefore the oxidizing authogenic formation of minerals is far developed in the deposits of the river-bed facies during the early diagenesis. This is also promoted by a free aeration of the sand deposits and by the low content of organic carbon (figure 1). In this connection the generation of calcium carbonates and iron hydroxides takes place. The occurrence of carbonates of chemical origin in the deposits is in connection with the supersaturation of the water near to the ground with Ca - and HCO3 -ions curing the warm season (reference 2). On transition from the shallow places to subacrial conditions theauthigenic enrichment with iron

Card 1/4

Data on the Diagenesis of Alluvial Deposits of the Arid Home of 20-1-45/58 Sedimentation.

by sedimentation of colloidal iron oxides, as crusts and films, on clastogenic grains by evaporation of aqueous solutions takes place. Further changes during the early diagenesis are redistributions of the substance of the river-bed deposits. Carbondes  $(CaCO_3)$ , colites and spherolites form. The sandis cemented by iron hydroxides. The redistribution of the substance intensively takes place in strongly moistened deposits. These stages, the oxidation stage of the formation of minerals and the stage of redistribution, may take place in parallel or independently of each other and are independent of the change of seasons. In the deposits of the facies of the flooded region thet pe of diagenetic processes changes. Here is much more organic carbon (figure 1) whose content increases from aleurolites in the direction of class The microorganism thriving here, especially in moistness, draw oxygen from the medium, whereby the latter assumes a reducing character; After the removal of the flood the oxigen deficiency does not change very such either, as the pelite deposits are slightly permeably and rich in organic substances. The protoxide medium leads to the transition of ferric oxide to ferrous oxide (pyrite, troilite, hydrotroilite, mel'nikovite, vivianite), Sulphide iron plays an especially important part. It indicates that

Card 2/4

Data on the Diagenesis of Alluvial Deposits of the Arid Zone of 20-1-45/58 Sedimentation.

 ${
m H}_2{
m S}$  which precipitates sulfite compounds of from is formed.  ${
m H}_2{
m S}$ is also formed in the mud-solutions in the arid cone of the rivers by reduction of sulfates. Various hydrohetites arriving with the normal splinter-material represent the source of iron. During the larger part of the year the sediments of the flooded region are under the influence of soil-forming processes and of weathering. Thereby prismatic and lumpy structures, root traces and other channels form. By these processes the ferrosoferricoxide forms are partially again coverted to oxide forms. The redistribution of the substance here takes place much more intensively than in the river-bed facies, as (figure 2) the aleurolites and clays are much moister here than the sands of the latter facies. A centrifugal diffusion is brought about here, which is indicated by the position of hydrohetite-rings around the pore-canals. Under the conditions of increased evaporation the solubility of calcium-bicarbonate in the warm water of the pore--canals decreases. It is precipitated as calcium-monocarbonate and fills up the canals from the periphery toward the center. The diagenesis is complicated by the soil-forming processes and by weathering, but often completely suppressed under subaerial

Card 3/4

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001343

Data on the Diagnesis of Alluvial Deposits of the Arid Zone of 20-1-45/58 Sedimentation.

> conditions. The alternation of the two initially mentioned stages of diagenesis depends on the seasonal floods. An oxidizing a reducing and a redistributing stage of mineral new formations may be distinguished in the facies of the Altarme ("staritsy"). There are 2 figures, 6 references, 5 of which are blavic.

Novocherkasak Polytechnic Institute imeni S. Ordzonikidze (Novo-ASSOCIATION: cherkasskiy politekhnicheskiy institut im. S. Vrdzhonikidze)

July 23, 1957, by N. M. Strakhov, Academician PRESENTED:

July 10, 1957 SUBMITTED:

Library of Congress AVAILABLE:

Card 4/4

3(8) AUTHORS:

Shamray, I. A., Radushev, 7 I

367/20-124-4-49/67

TITLE:

Glauconite From the Cretaceous Sediments of the Belaya River in the Northern Caucasus (Glaukonit iz melovykh otlozheniy r. Beloy

na Severnom Kavkaze)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 4, pp 900~902 (USSR)

ABSTRACT:

In the region mentioned above a constant morizon of glauconitic sands and sandstones in the Lower Cretaceous (Aptian) can be observed in many places. On the Belaya river it attains a thickness of 15 m and is characterized by a high glauconitic concentration which often attains a percentage of 60-75 %. The respective strata are described here. They contain also fine intermediate strata and bizarre dendroid siderite concretions which are probably pseudomorphs of wood remnants, which also contain glauconitic inclusions, The glauconite grains are green, ball-shaped or elliptical, slightly transparent only at the edges and their size varies between extremely small dimensions and 0.6-0.7 mm. In polarized light there appears a typical aggregate extinction with double light refraction. Table 1 shows the chemical composition of glauconite and the crystallochemical formula which is very approximate to that mentioned in reference 2. The numerical coefficient (chislovoy koeffitsient) of

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sov/20-124-4-49/67

Glauconite From the Cretaceous Sediments of the Beleva River in the Northern Caucasus

silicon in the tetrahedra amounts to 3.58, that of aluminum in the octahedra to 0.21. Part of the silicon is replaced in the tetrahedra by aluminum. Clauconite is similar to the celadonites (Ref 2) due to a rather high content of iron in the obtahedral layers. Table 2 presents the radiometric measurements and the comparison between them and the Debye electronograms of earlier described (Refs 1.2,3,5) glauconites. The thermal curve of heating (Fig 1) indicated two marked endothermic intermissions (ostanovka) as being characteristic of standard glauconites, i.e. at 190° by loss of the hygroscopic water and at 5750 by separation of the constitution water. Up to 1000 about 4 % water are separated (Fig 2), up to 400° the water loss is insignificant. The largest amount of water is separated between 400 and 600°. At 700° dehydration has virtually been completed. The total loss of water amounts to 9 % approximately. The glauconite deposits within the catchment area of the Belaya river may have been built up in the area of an extremely shallow body of water near the shore, which is confirmed by a high content of organic substances as well as tree-like sideritic pseudomorphs. A high content of oxide iron is evidence of the small depth in which the deposits were formed. Glauconites are regarded as accumulations in the upper shelf

card 2/3

30V/20-124-4-49/67

Clauconite From the Cretaceous Sediments of the Belaya River in the Northern Caucasus

area (Ref 1). Clauconite was formed by hydrochemical synthesis during the earliest stage of diagenesis when the reductive reactions had not yet attained the climax. Subsequently, siderite was produced when the decomposition of organic substances increased and the reductive processes had attained the climax. Thus, siderite was formed in a later stage of diagenesis (Refs 7,8). As the glauconitic material is weakly sorted, it is syngenetic-autochthonous. A certain displacement and sorting within the intermediate strata most abundant in glauconite seems to be possible (Ref 9). There is no doubt about the great practical importance of the above mentioned deposits. There are 2 figures, 2 tables, and 10 references, 9 of which are Soviet.

ASSOCIATION:

Rostovskiy-na-Donu gosudarstvennyy universitet

(Rostov-na-Donu State University)

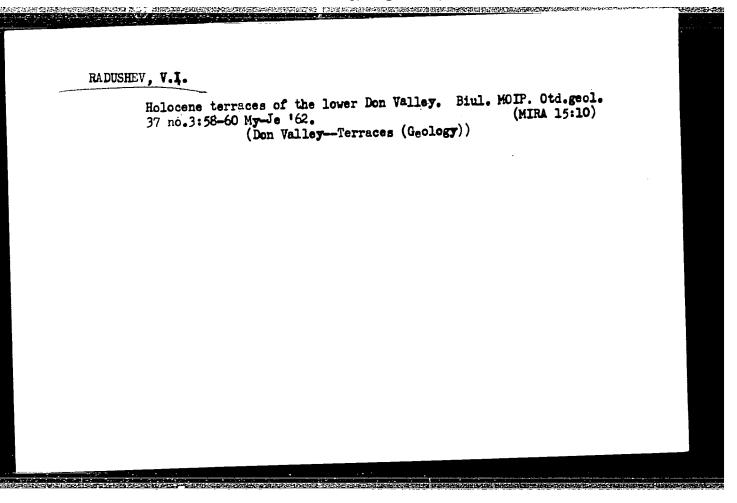
PRESENTED:

October 11, 1958, by N. M. Strakhov, Academician

SUBMITTED:

October 9, 1958

Card 3/3



### RADUSHEV, V.I.

Pseudomorphoses of fluvial sediments. Priroda 51 no.12:38 D (MIRA 15:12)

1. Novocherkasskiy politekhnicheskiy institut im. S. Ordzhonikidze. (Don River—Pseudomorphs)

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

USSR / Human and Animal Physiology (Normal and Fathological, Physiology of Work and Sport.

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 60884

Author : Radushinskiy, L. A.

Inst : Not given
Title : The Use of Tensiometry in the Study of Human Work

Movements

Orig Pub : Fiziol. zh. SSSR, 1957, 43, No 8, 804-805

Abstract : For the characterization of the correctness of methods

of sawing, the saw was equipped with tensiometric indicators, connected to a bridge device, and the potentials were recorded after magnification, by an oscillograph. The author recommends this method for the

recording of work with different types of manual

instruments. -- M. A. Gritsevskiy

Card 1/1

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RADUSHINSKIY, N.A.

389 PHASE I BOOK EXPLOITATION

Osnovy organizatsii i planirovaniya mashinostroitel'nykh predpriyatiy Satel', Eduard Adamovich

SSSR (Principles of Organization and Planning of Machinebuilding Enterprises in the USSR) Moscow, Mashgiz, 1957,

Ed.: Sochinskiy, A.R., Engineer; Ed. of Publishing House: Barykova, G.I.; Tech. Ed.: Uvarova, A.F.; Managing Ed. For Barykova, G.I.; recn. Ed.: Uvarova, M.F.; managing Ed. Luc Literature on the Economics and Organization of Machine Building

This book is intended as a text-book for students of industrial engineering institutes and industrial engineering (Mashgiz): Saksaganskiy, T.D. industrial engineering institutes and industrial engineering departments of technical vuzes and is authorized as such by departments of technical vuzes and is authorized as such the Ministry of Higher Education. It is also considered useful to engineering and technical personnel in machine-PURPOSE: building enterprises.

Card 1/4

-uachev -unsists of -n inclined drilling -nine tools. This line -10 motors with a total capacity -- yed in machining cylinder blocks

motor. All equipment is served blocks

APPROVED FOR RELEASE: Tuesday, August 01/2000 brior to

Card 2/4

Principles of Organization and Planning of Machine (Cont.) 389

automation. In another example, the automation equipment at the Moscow Bearing Plant is reported to consist of a line which includes eighty-four units, of which sixty-nine are machine tools. This automated line machines bearing races, coats the races with anticorrosive substances, assembles, and packs both roller and ball bearings. Chapters I to V were written by Professor E.A. Satel' and reviewed by Doctor of Economic Sciences K.I. Klimenko; chapter VI was written by Candidate of Technical Sciences N.A. Radushinskiy and reviewed by Engineer S.A. Dumler. All chapters were read by the Department of Organization and Production Economics of the Moscow Automechanic Institute. There are no references.

Card 3/4

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120

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343"

processivevice, E.V., Vability, Yu.V., Konkin, A.A.

Studying the misinalty of fluorite-containing polymer melia.

finim. volum. no.Sile.20 '65. (Mish 18:10)

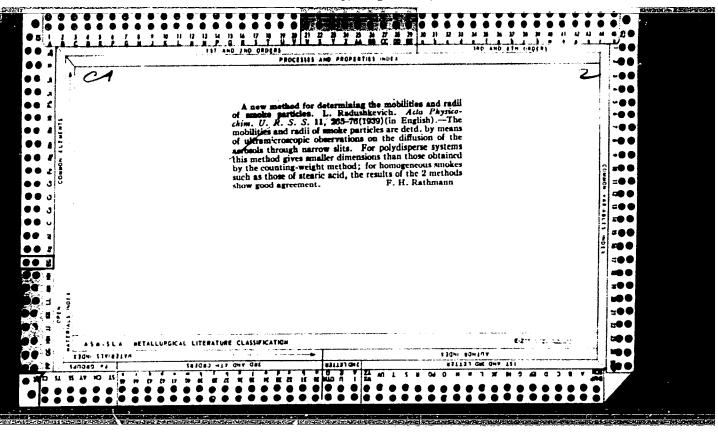
1. SWITTY (for Radushkevich), Vasiliyer). 2. Moskovskiy

.Mantilinyy institut (for Nonkin...

RADUSHKEVICH, David Yefimovich

[Trade-union work on State farms]Profsoiuznaia rabota v otdelenii sovkhoza. Moskva, Profizdat, 1961. 44 p. (MIRA 16:1) (Trade unions) (State farms)

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343"



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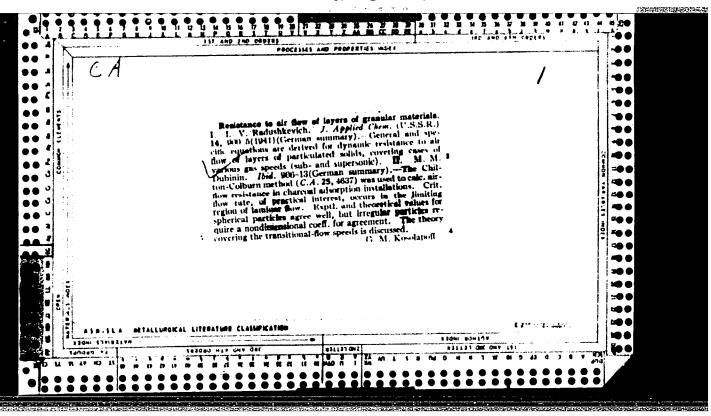
FADUSHRENGER, I. V. (No offiliation liven)

"A New Nethad of Leternining the Mobility and Radius of Emoke Particles," Zhur. Piz.

Thin. 13, No. 3, 1949. Received 16 April 1939.

Report U-1615, 3 Jan. 1952

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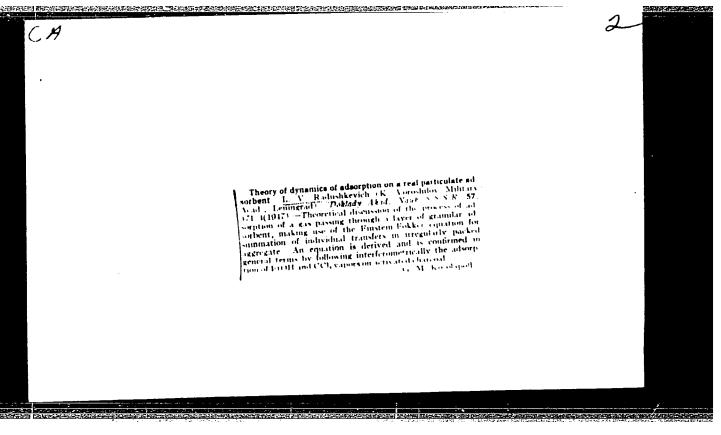
131 /Gramistry - Adsorption Chemistry - Charcoml, Activated Peb 1947

"The Chern teristic Curve Equation for Active Charcoals," M. M. Dubinin, Mem, Acad Del Wolff: L. V. Radushkevich, Lab Corrtior Processes, Inst Thys Chem, Acad Sci Volff, 3 11

"Oh Acad Sci" Vol LV, 1 4

awing ion of edscription potential to distance from surface of distribute on the deduction of edscription in simple cases, and cannot be used for infustrial adment to which the torous bodies of our lex structure. It languist theory angests use of characteristic curve of adsorbent. Buthors attempt to describe these curves by a well-founded equation, in case of porture bodies, especially active characteristic. Submitted, 9 Dec 1946.

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Sorption and structure of active carbons. VII. The potential theory of adeoption and the structure of active carbons. I. V. Radiablevskih Anad. Sci. U.S. S. V. Moscow.)

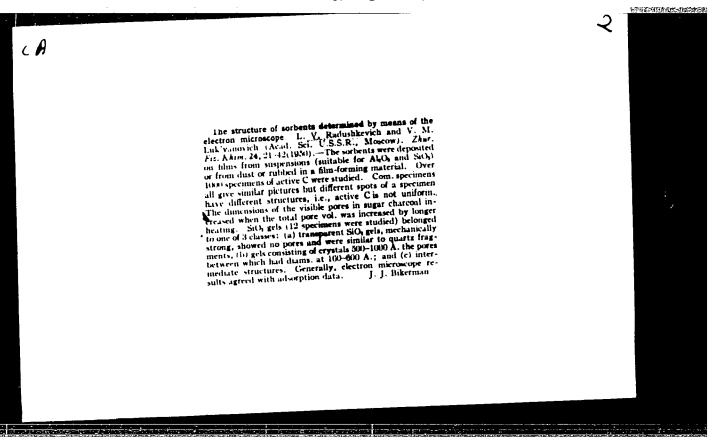
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at the advorption potential, a win is the max. voil. advorbed, and be a count.) is accounted for if f(s) = (22 s)/s. 1...

(s) is proportional to the probability of the advorption potential being between a and s + d., s is the d. of the advorption potential being between and s + d., s is the d. of the advorption potential to the ore is atmost to be in the core in the core is atmost to be in the core in the core in the core in the core is atmost to be in the core is atmost to be in the core in

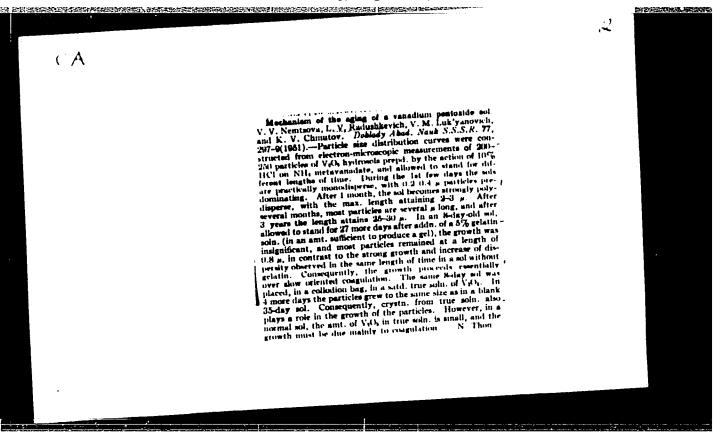
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### "APPROVED FOR RELEASE: Tuesday, August 01, 2000

#### CIA-RDP86-00513R001343



VELICHKO, M.V.; RADUSHKEVICH, L.V.

Properties of a hydrodynamic stream flowing around tiny stationary obstacles and the effectiveness of the capture of aerosol particles. Dokl. AN SSSR 154 no.2:415-418
Ja'64. (MIRA 17:2)

1. Institut fizicheskoy khimii AN SSSR. Predstavleno akademikom M.M. Dubininym.

## RADUSHKEVICH, L.V.

Capillary condensation of vapors in highly disperse  $b_{1}$  ms. 1. Calculation of the capillary condensation in the neighborhood of the contact points of spherical particles. L. V. Radu bleevich (Inst. Phys. Chem. Acad. Sci. U.S.S. F. Mosegw). Isseed. Akad. Nauk 3.5.5.R., Oidel. Khill Nauk 1952, 1008–20; cf. C.A. 47. 6734f. — Capillary condensation around the point of contact between 2 spheres streated on the basis of the Thomson-Kelvin equation relative the radii of curvature r and r' of the meniscus with the surfice tension  $\sigma$ , the mol. vol. V, and the relative pressure  $p_r = p/p_s$ , in the form (1/r) + (1/r') = RT In  $p_s/\sigma V = 2/C$ . Complete wetting is assumed. In the limiting case  $p_r = 1$ , i.e. at satu., 2/C = 0; the meniscus surface is shown to be a catenoid, and the vol. of condensed liquid,  $v = (2/3) \pi R^3 \times 1.2094$ , is proportional to the vol. of the spheres of radius. I and does not depend on the nature of the liquid and vapor. At any  $p_r < 1$ , it is shown that the meniscus is a trochoid analysis leads to a functional r-1 ation between the dimensionless parameter  $\beta = C/R$  and the dimensionless parameter x = r/R, where  $r_t$  is the min. distance of the trochoid from the point of contact of the 2 spheres. With increasing  $\beta$ , i.e. with increasing  $p_r$ , the relative distance x of the middle of the meniscus from the point of contact first increases rapidly, then increasingly more slowly, and tends to leve off to a const. value, corresponding at the limit to  $p_r = 1$ . The vol. of condensed liquid v is expressed by  $v = (2/3) \pi R^{3/U}$ ; the function U is computed and tabulated for complete satu. The magnitude U, which represents a times the relative vol. of the condensed liquid, is a universal function of  $\theta$ , independent of the material consts. Numerical values of U and v are computed and tabulated, as function of  $p_r$  from 0.5 to 1.0, for the adsorption of C it caper on spheres of  $R = 1 \times 10^{-6}$ ,  $5 \times 10^{-6}$ ,  $1 \times 10^{-6}$ ,  $1 \times 10^{-6}$ ,  $1 \times 10^{-6}$ , 1

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RADUSHIZATOR, L. ..

USSR/Chemistry - Adsorbents

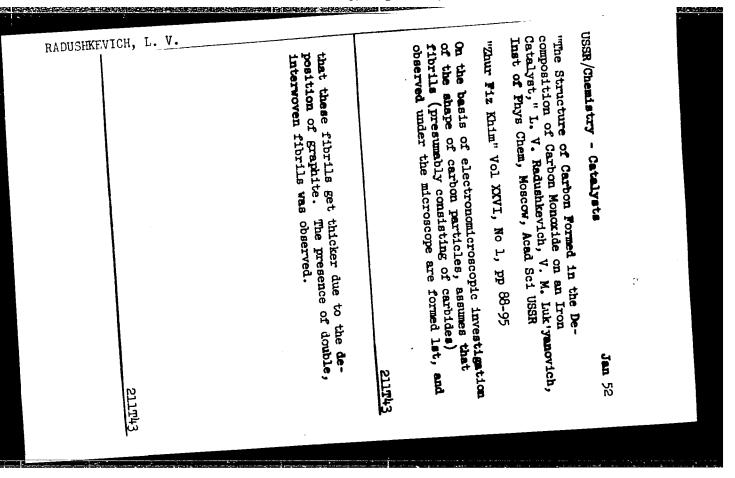
Nay/Jun 52

"Natural Adsorbents of the Far East. Lart I. Electron-Microscopic Investigation of Matural Adsordents," V. T. Bykov, V. M. Luk'yanovich, L. V. Radushkevich, Inst of Phys Chem, Acad Sci WSR

"Iz Ak Mauk, Otdel Khim Mauk" No 3, pp 405-409

Ash tufts and their weathering products, decompd tuff applomerates of old quaternary volcances, tentonite clays, and diatomites were investigated under the electron microscope and their adsorption qualities were detd. The samples used in the test are identified only by the general classification given above and by numbers; their exact place of origin is not indicated.

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### "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001343

Electron-microscopic study of congulation of vanadigm axide sols with electrotytes. A v Drophers, V M. Luk-through the congulation of vanadigm axide sols with electrotytes. A v Drophers, V M. Luk-through the congulation of vanadigm axide sols with electrotytes. A v Drophers, V M. Luk-through the congulated with the congulated with kCl (final conc. 0.1N) and shaken very congulated with kCl (final conc. 0.1N) and shaken very congulated with kCl (final conc. 0.1N) resultant suspensionly in a large with kCl (final conc. 0.1N) resultant suspensionly in a large with the concentration of the conce

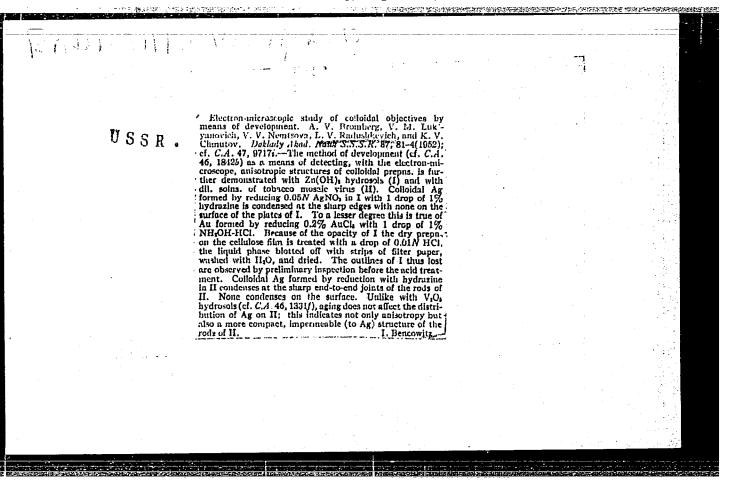
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BINGERO, A. V. - LUK'YANDVICH, V. M. - HENTSOYA, V. V. - MADUCHWEVICH, L. V. - CHERTSOY, V. V.

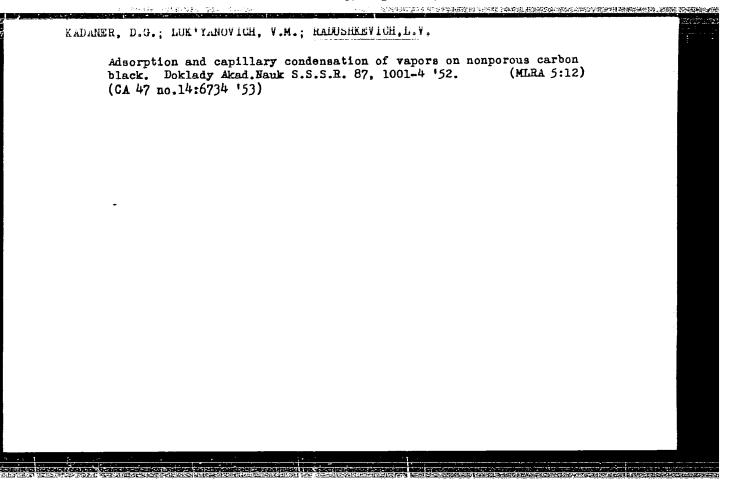
Vanadium Pentoxide

Investigation of coagulation of  $V_2O_5$ — sols by electrolytes with the aid of an electron microscope. Dokl. AN SUSA 65 no. 2, 1952.

Monthly List of Hussian Accessions, Library of Congress, November 1952, UNCLASSIFIED.



#### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343"

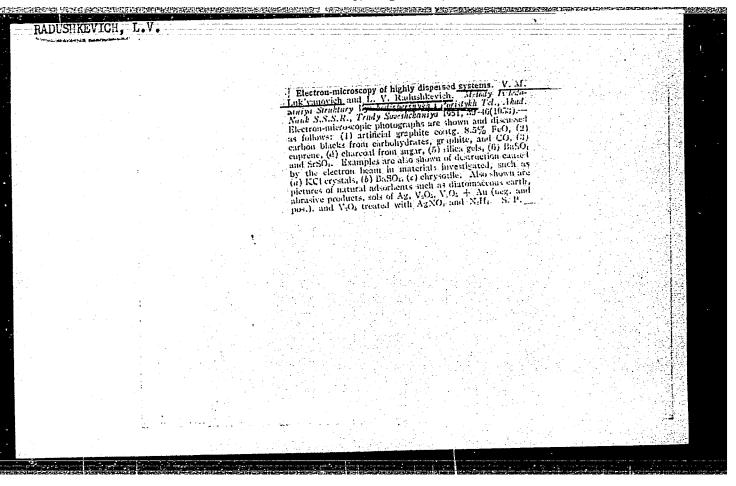


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The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of

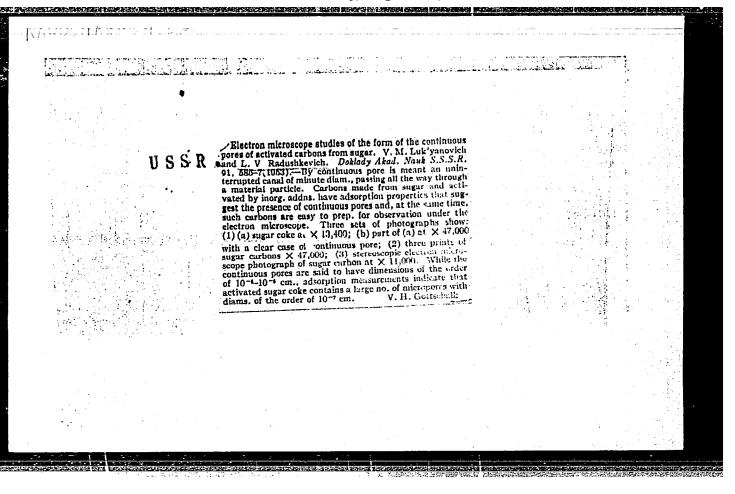
SO: W-306th, 7 July 1954

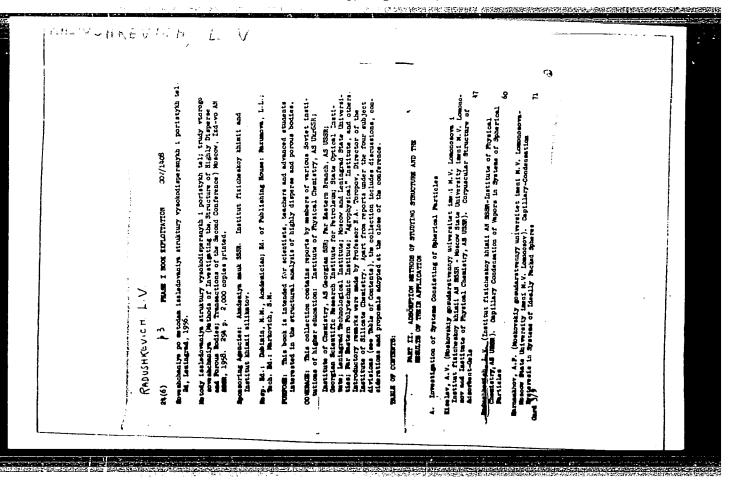
#### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343



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BROMBERG, A.V.; LUKYANOVICH, V.M.; NEMTSOVA, V.V.; RAINSHKEVICH, L.V.; CHMUTOV, K.V.

Electron-microscopic study of vanadium pentoxide sols. Zhur. Fiz. Khim. 27, 379-88 '53. (MLRA 6:5) (GA 47 no.19:9717 '53)
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APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0013439

AUTHOR: Radushkevich, L. V. 62-58-3-4/30

TITLE: An Investigation of the Capillary Condensation of Vapors in High-Dispersed Systems (Issledovaniye kapillyarnoy kondensatsii

parov v vysokodispersnykh sistemakh). Communication 2. Evaluation of Some Approximate Calculations of Capillary Condensed Volumes (Soobshcheniye 2. Otsenka nekotorykh pribliz-

hennykh raschetov kapillyarno-kondensirovannykh ob"yemov)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk,

1958, Nr 3, pp. 285-289 (USSR)

# JTRACT: With regard to the calculation of capillary-condensed volumes

of liquids near the point of contact of two equal spherical particles the author in the preceding paper also discussed the thermodynamic equilibrium between vapor and liquid which exists between 2 contacting spheres. All approximate calculations already performed by the author are physically founded and more precise than those hitherto existing. The author quotes

a number of authors, Leybenzon (calculation of the mineral oil volume), Higuti and Utsugi (approximate calculation of

Card 1/2 the volume of liquid in connection with the interpretation of

An Investigation of the Capillary Condensation of Vapors in 62-58-3-4/30 High-Dispersed Systems. Communication 2. Evaluation of Some Approximate Calculations of Capillary Condensed Volumes

the isothermal lines of vapor adsorption), Davies and Lykov. In all works quoted by the author it is assumed as a general principle that the meniscus profile of the liquid between contacting particles represents the arc of the periphery. This assumption leads to a simplification of the calculations. In the present paper it is shown, however, that approximate calculation of liquid volumes forming near the point of contact of two spheres in capillary condensation are by no means reliable (when it is assumed that the meniscus profile is the arc of the periphery). For the core of the spheres with equal radius the deviations of individual volume values may amount to 25-30% in the best approximation calculations (when the mean radius of the meniscus curvature or the mean surface curvature are introduced). In some other simplifications the deviation may still be higher . (See formulae 1-10). There are 1 table and 7 references, 4 of which are Soviet.

ASSOCIATION:

Institut fizicheskoy khimii Akademii nauk SSSR (Institute

for Physical Chemistry AS USSR)

SUBMITTED:

January 20, 1957

Card 2/2

# "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

62-58-4-3/32 Radushkevich, L. V. AUTHOR: Investigation of the Vapor Capillary Conlensation in Highly Dispersed Systems (Issledovaniye karillyarnoy TITLE: kondensatsii parov v vysokodispersnykh sistemakh). Communication 3: Capillary Condensation in Cells of Two Contacting Spheres With Different Radius (Sochshcheniye 3: Kapillyarnaya kondensatsiya v yacheykakh iz dvukh kontaktiruyushchikh sharov rasnogo radiusa) Izvestija Akademii Nauk SUSR, Otdeleniye Khimicheskikh Nauk. reriodical: 1953, Nr 4, pp. 403 - 410 (USSN) The authors calculated already earlier the liquid volumes forming in the capillary vapor condensation near the contact ABSTRACT: point of two spherical particles of the same radius. In this paper they now give the volume calculations of the liquids for the case when the contacting particles have a different ratius. This calculation is necessary for the more exact approximation to real dispersed systems. The solution of this more general problem is achieved according to the same methods as in the previous communication. In Card 1/3

62-59-4-3/32

Investigation of the Vapor Capillary Condensation in Highly Disjersed Systems. Communication 3: Capillary Condensation in Cells of Two Contacting Spheres With Different Radius

this paper the author reports on the calculation of the capillary condensed volumes for the cell consisting of two spheres (of different radius). In the second chapter the author discusses the general case of the capillary condensation of vapors in cells consisting of two spheres of different radius. The results obtained show that the variety of volumes of the spherical particles exercises an essential on the liquid volume near the contact point. It was found that the difference in size of the contacting spheres leads up to 15% increase of the liquid volume. There are 2 figures, 4 tables, and 1 Sowiet references.

Card 2/3

62-58-4-3/32

Investigation of the Vapor Capillary Condensation in Highly Dispersed Systems. Communication 3: Capillary Condensation in Colls of Two Contacting Spheres With Different Radius

ASSOCIATION: Institut fimicheskoy khimii Akademii nauk SSSR

(Institute for Physical Chamistry, AS USSR)

SUBMITTED: January 20, 1957

AVAILABLE: Library of Congress

1. Capillary condensation-inalysis 2. Dispersed systems

-Applications 3. Spheres-Applications

Card 3/3

## "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RADUSHK SERP	EVICH, L. V	.; TSITSISH V.; LUK'YAN	IVILI, G. V.; IOVICH, V. M.	YERMOLENI	to, N. F.;	DUBINIÈ,	Ma Maj	sekimu,	B. P.	;
"The	e adsorption	from vapor	s and liquid	s. <sup>††</sup>						
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Tì	report p Decitation	resented at rgian SSA,	the Fourth A 12-15 May 195	illutation (	dur. 20,5	on Callo , p 677-9	idal Che , '58, T	mistry, Mudaman,	A.B)	
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## "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

76-32-2-9/38

AUTHOR:

Radushkevich, L. V. (Moscow)

TITLE:

The Theory of the Deposition of Particles From a Gas Flow on an Isolated Cylinder in Connection With the Filtering Process (Teoriya osazhdeniya chastits iz gazovogo potoka na izolirovannom tsilindre v svyazi s protsessom fil'tratsii aerozoley)

PERIODICAL:

Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr 2, pp. 282-290 (USSR)

ABSTRACT:

In the theoretical analysis given here the mode of action of two factors is investigated: diffusion and direct convection. This corresponds to the most simple filtering process of highly disperse aerosols in those cases where the neglecting of the mechanism of inertia and sedimentation is correct. The main purpose of investigation was the checking of the dependence of the effectiveness of deposits on the measurements of aerosol particles. This, because this dependence forms the most characteristic feature of fiber-filters. The problem formed here consists in finding the number of particles de-

Card 1/3

76-32-2-9/38

The Theory of the Deposition of Particles From a Gas Flow on an Isolated Cylinder in Connection With the Filtering Process

positing in the steady process per unit time per unit of cylinder length, in case that the radius of the particle and that of the cylinder, the velocity of the non-disturbed flow, the partial concentration N of the aerosol (at a distance from the cylinder) and the properties of the parameters characterizing the dispersion medium are given. The equation (7) for the effectiveness of the deposition  $\eta$  is deduced using the differential equation for convective diffusion in a flow. This formula gives the general solution of the problem of the deposition of particles from a flow on a cylinder. In the case of a viscous gas flow, with small Reynold's numbers and with small values of the ratio of r/R (radius of the particles/radius of the cylinder) the effectiveness of the deposition, as function r, shows a minimum which coincides with most experimental data on aerosol filtering. It is shown that with particles with finite geom metrical dimensions the whole process can be expressed as a common mode of effect of diffusion and direct convection. Different from Langmuir's theory (Reference 2) both mechanisms have an inseparable effect on the course of the process in the computations carried out here. However, the pure

card 2/3

76-32-2-9/38

The Theory of the Deposition of Particles From a Gas Flow on an Isolated Cylinder in Connection With the Filtering Process

diffusion deposition for the range of small dimensions of particles can be separated. It is pointed out that the dif... fusion and the geometric dimensions of the particles only determine the lower limit of the possibility of the deposition of particles on a cylinder within the practically important dispersion range. Thus the given method of computation with a minimum number of assumptions apparently leads to an understandable explanation of the mechanism of deposition, although it does not completely solve the complicated problem of aerosol filtering. There are 1 figure, 1 table, and 27 references, 5 of which are Soviet.

ASSOCIATION: Akademiya nauk SSSR, Institut fizicheskoy khimii (AS USSR, Institute for Physical Chemistry)

SUBMITTED:

October 1, 1956

1. Particles (Airborne) -- Control systems 2. Particulate filters

Card 3/3

-- Analysis 2. Mathematics

20-119-3-38/65 Radushkevich, L. V. AUTHOR:

The Adsorption Potential Near Spherical Particles of TITLE:

Colloidal Size ( Adsorbtsionnyy potentsial vblizi sfericheskikh

chastits kolloidnykh razmerov)

Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 3, PERIODICAL:

pp. 530 - 532 (USSR)

First the author gives a short general survey on the state of the problem. The author first investigates the adsorption ABSTRACT:

field in the distance d from the surface of a particle with the diameter & = 2r. The most practical performance of this computation is comparing the adsorption potential P of the particle with the value of this potential in the same distance for a plane surface (then this potential is equal to  $P_{\infty}$ ). Also a priori can be asserted  $P < P_{\infty}$  and for this inequality two reasons exist: The influence of the curvature of the surface and the finite dimensions of the particle. The computation, which is suggested here, refers to particles of a diameter of

from 100 to 200 %, which is the case with silica gels, soot, etc. For the estimation of the possibility of the production

card 1/3

20-119-3-38/65

The Adsorption Potential Near Sperical Particles of Colloidal Size

of polymolecular layers the potential was computed in distances of 3-7 radii of the adsorbate molecule from the surface. On these conditions the distance d is for several times greater than the distance between the molecules of the adsorber and in the computation of the adsorption potential without any noticeable error the summation can be replaced by an integration. For the adsorption potential explicitly an expression is written down, and specialized for a spherical particle. A table contains the values of various coefficients, which occur in the here derived formulae. These coefficients considerably differ from the value 1(which corresponds to a plane surface). Also the contributions of the quadropole terms and the components of the repulsion are small compared with the contribution of the dipole term and therefore can be neglected. Anyway above a single particle in distances of 2 - 3 molecular layers a diminuition of the adsorption potential by 10 - 20% compared with the corresponding value above a plane surface has to be considered. In the case of tangent particles of the

Card 2/3

20-119-3-38/65

The Adsorption Potential Near Spherical Particles of Colloidal Size

same size the potentials of the single particles are superimposed additively. In the case of pairs of tangent particles the potentials on the joint tangent and in equal distances from both particles simply are doubled. At groups of three particles, which are packed as tight as possible, the adsorption potential in the case of small particles is P<sub>1,2,3</sub> 3P. Finally the author thanks the member of the Academy M. M. Dubinin for his interest in this work. There are 1 table and 4 references.

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of

Physical Chemistry, AS USSR)

PRESENTED:

November 2, 1957, by M. M. Dubinin, Member, Academy of

Sciences, USSR

SUBMITTED: AVAILABLE:

October 25, 1957

Library of Congress

Card 3/3

PHASE I BOOK EXPLOITATION SOV/5338

#### Radushkevich, Leonid Wiktorovich

Kore statisticheskoy fiziki (A Course in Statistical Physics) Moscow, Uchpedgiz, 1960. 347 p. 7,000 copies printed.

Ed.: Ys. L. Khait; Tech. Ed.: M. I. Smirnova.

MRRPOSE: This textbook is intended for physics students at pedagogical institutes and may also be used by students of statistical physics at other ruzes.

OFERAME: This course in statistical physics conforms to the program in force at pedagogical institutes and other vuzes, and discusses in abbreviated form the fundamentals of statistical physics. Main attention is given to classical statistics, though the most important problems in quantum statistics are also dealt with. A treatment of the fundamental Gibbs methods precedes the discussion of the elementary kinetic theory of gases and the analysis of the statistical meaning of the second law of thermodynamics. The present work is based on a course given by the author over a period of nine years at the Moskovskiy garadskoy redagogicheskoy institut imeni V. P. Potenkina (Moscow Municipal Pelagogical Institute imeni V. P. Potenkin). Those parts of the theory of Caret 1/27.

#### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

RADUSHKEVICH, L.V.

Capillary condensation of vapors in highly dispersed systems. Report No.4: Capillary condensation in systems couniting of large numbers of particles in contact. Izv.AN SSSR.Otd.khim.nauk no.5:756-762 My 161. (MIRA 14:5)

1. Institut fizicheskoy khimif AN SSSR.

(Water vapor) (Capillarity) (Condensation)

#### RADUSHKEVICH, L.V.

Capillary condensation of vapors in highly dispersed systems.

Report 5: Analysis of joint adsorption and capillary condensation process in the systems consisting of particles in contact. Izv.AN SSSR.Otd.khim.nauk no.6:984-988 Je '61. (MIRA 14:6)

l. Institut fizicheskoy khimii AN SSSR.
(Adsorption) (Condensation)

#### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343

PADMSHKEVICH, L.V.; KOLGANOV, V.A.

Capillary-retained liquid in disperse systems consisting of particles in contact. Ko.. zhur. 23 no.1:86-94 Ja.F '61.

(MIRA 17:2)

1. Institut fizicheckov khimii AN SSSR, Moskva.

RADUSHKEVICH, L.V.

Present state of the theory of aerosol filtration (reply to the critical remarks of G.L. Natanson and E.N. Ushakova). Zhur. fiz. khim. 35 no.2:467-470 F 361. (MTRA 16:7)

l. Institut fizicheskoy khimii AN SSSR. (##rosols)

RADUSHKEVICH, L.V.; LEONT'YEV, Ye.A.; KOLGANOV, V.A.

Semiautomatic device for obtaining particle size distribution hystograms in disperse systems. Zhur. fiz. khim. 35 no.5: 1153-1155 My 161. (MIRA 16:7)

1. Institut fizicheskoy khimii AN SSSR.

(Particle size determination)

RADUSHKEVICH, L.V. (Moskva)

New method for determining the efficiency of the deposition of aerosols from a flow on a stationary cylinder. Zhur.fiz.khim. 35 no.8:1870-1873 Ag '61. (MIRA 14:8)

1. Institut fizicheskoy khimii AN SSSR.

(Particle size determination)

(Aerosols)

RADUSHKEVICH, L. V.; KOLGANOV, V. A.

"Study on the deposition of high disperse aerosols from gas flow on ultrafine cylinders"
To be presented at the First National Conference on aerosols - Liblice, Czechoslovakia, 8-13 Oct 1962

Inst. of Physical Chemistry, Acad. of Sci. USSR, Moscow

RADUSHEEVICH, L.V.; kOLGANOV, V.A.

Experimental studies of the deposition of aerosols from a stream on thin single fibers. Report No.1: Deposition of polydispersed aerosols of tungsten trioxide. Izv. AN SSSR Otd.khim.nauk no.1: 23-31 Ja '62. (MIRA 15:1)

 Institut fizicheskoy khimii AN SSSR. (Tungsten oxide) (Aerosols)

## RADUSHKEVICH, L.V.

Theory of the filtration of polydispersed aerosols out of a steady flow. Izv.AN SSSR.Otd.khim.nauk no.7:1190-1197 Jl '62. (MIRA 15:7)

1. Institut fizicheskoy khimii AN SSSR. (Aerosols)

RADUSHKEVICH, L.V.; VELICHKO, M.V.

Theory of precipitation of highly dispersed aerosols from a flow on an ultrathin cylinder. Dokl. AN SCSR 146 no.2:406-408 S 162. (MIRA 15:9)

1. Institut fizicheskoy khimii AN SSSR. Predstavleno akademikom M.M. Dubininym.

MEDNIKOV, Yevgeniy Pavlovich; RADUSHKEVICH, L.V., doktor khim. nauk, prof., otv. red.; GUROV, K.P., red.izd-va; ASTAF'YEVA, G.N., tekhn. red.; VOLKOVA, V.V., tekhn. red.

[Accoustical coagulation and precipitation of aerosols]
Akusticheskaia koaguliatsiia i osazhdenie aerozolei. Moskva, Izd-vo AN SSSR, 1963. 262 p. (MIRA 16:12)
(Aerosols) (Ultrasonic coagulation)

#### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001343"

RADUSHKEVICH, L.V.

Nature of secondary processes in the filtration of aerosols. Report No.1: Simplest theory of coprecipitation of particles in a filter and colmatation kinetics. Izv.AN SSSR.Otd.khim.nauk no.3:407-414 Mr '63. (MIRA 16:4)

1. Institut fizicheskoy khimii AN SSSR.

(Aerosols) (Filters and filtration)

RADUSHKEVICH, L.V.

Kinetics of the formation and growth of aggregates on a solid obstacle from a flow of colloid particles. Koll.zhur. 26 no.2: 235-240 Mr-Ap '64. (MIRA 17:4)

1. Institut fizicheskoy khimii AN SSSR, Moskva.

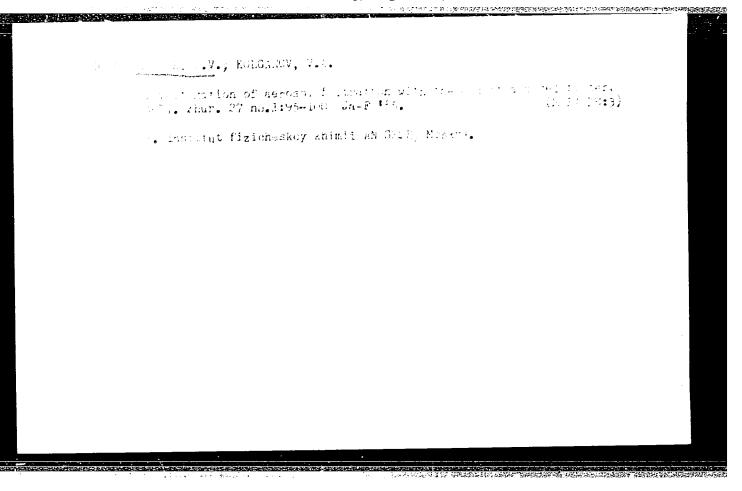
RADUSHKEVICH, L.V.; KOLGANOV, V.A.

Method of evaluating aerosol filters by means of polydispersed aerosols.Zav. lab. 30 no.11:1365-1367 '64 (MIRA 18:1)

1. Institut fizicheskoy khimii AN SSSR.

RADUCHKEVICH, E.V.; RCIGANOV, V.A.

Use of drying oil fogs in studying filtration of aerosols.
Zhur. Ciz. khim. 38 no.31806-808 Mr <sup>1</sup>64. (MIRA 17:7)



BAZAROV, 1.P.; GERASIMOV, Ya.I.; KISELEV, A.V.; PREDVODITELEV. A.S.; RADUSHKEVICH, L.V.; SKURATOV, S.M.; THRLETSKIY, N.F.; CHMUTOV, K.V.; SHUBNIKOV, A.V.; SHULEYKIN, V.V.

Vladimir Ksenofontovich Semenchenko, 1894-; on his 70th birthday. Zhur. fiz. khim. 39 no.5:1300-1301 My '65. (MIRA 18:8)

EWI(1)/EWI(m)/EWP(1)/TDS/WH/JK/RM ACC NR: AP6012074 SOURCE CODE: UR/0069/65/027/001/0095/0100 AUTHOR: Radushkevich, L. V.; Kolganov, V. A. ORG: Institute of Physical Chemistry, AN USSR, Moscow (Institut fizicheskoy khimii AN SSSR) TITIE: Study of aerosol filtration by means of a model filter SOURCE: Kolloidnyy zhurnal, v. 27, no. 1, 1965, 95-100 TOPIC TAGS: polystyrene, filtration, aerosol ABSTRACT: A design of a model filter was developed and tested for the purpose of studying aerosol filtration. The filter consists of a large number of sections, each containing from 500 to 1200 polymer fibers with a mean diameter of about 1.5  $\mu$ . Experiments on the filtration of a polydis ree polystyrene/aerosol led to the derivation of a relation between the dal breakthrough coefficients and the particle size. A maximum in this dependence was found for particles 0.2-0.3  $\mu$  at a flow rate of 0.4 cm/sec; this maximum shifted toward smaller particles as the flow rate increased. Variation in the number of sections and in the degree of their filling, and also repeated applications of fibers by the same technique showed that model filters of this design give reproducible results. Card 1/2 UDC: 541.182.21.3

L 20342-66

ACC NR: AP6012074

2

A calculation of the efficiency of deposition on a single fiber with an average diameter of ~1.5 \( \mu, \) based on the breakthrough coefficients obtained, showed that this efficiency remains virtually unchanged from a filling density of ~33 fibers per mm to a density of ~75 fibers per mm, i.e., it that it is independent of the mutual interaction of the neighboring fines of the filter. The authors thank V. N. Pechenov and V. G. Sazonova for preparing the model and assembling the filters. Orig. art. has: 5 figures, 2 tables, and 3 formulas. [JPRS]

SUB CODE: 06, 11 / SUBM DATE: 15May63 / ORIG REF: 004 / OTH REF: 002

Card 2/2 13K

AUTHOR: Radushkevich. L. V.  ORG: Institute of Physical Chemistry, Academy of Sciences SSSR (Institut fizicheskoy khimii Akademii nauk SSSR)  TITLE: The significance of linear diffusion in filtration of aerosols by layers of fibrous materials  SOURCE: Zhurnal fizicheskoy khimii, v. 40, no. 2, 1966, 317-321  TOPIC TAGS: aerosol, filtration, filter  ABSTRACT: Experiments on the study of the filtration of polydispersion aerosols by means of layers of fibrous materials have shown that the effectiveness of precipitation calculated for each individual fiber may not only be greater, but smaller than the effectiveness for an ideal filter made of identical fibers with a correct arrangement. The reasons for the discrepancies are analyzed. It is found from the investigation that the filtration of aerosols by means of self-diayers is complicated by the presence of heterogeneities in the arrangement of the fibers, which layers is complicated by the presence of heterogeneities in the arrangement of the fibers, which layers with correctly arranged layers. This circumstance does not make it possible to ideal layer with correctly arranged layers. This circumstance does not make it possible to shift unconditionally in the calculations from the effectiveness found for individual isolated shift unconditionally in the calculations from the effectiveness found for individual isolated fibers to the effectiveness obtained from the experimental data for layers. Theoretically, fibers to the effectiveness obtained from the experimental data for layers. Theoretically, the effect of the heterogeneity on the filtration process may be described as the mechanism of	L 32822-06 EWT(1)/EWT(m)/T IJP(c) WW/RO/DS  ACC NR: AP6008089 (A) SOURCE CODE: UR/0076/66/040/002/0317/032127
SOURCE: Zhurnal fizicheskoy khimii, v. 40, no. 2, 1966, 317-321  TOPIC TAGS: aerosol, filtration, filter  ABSTRACT: Experiments on the study of the filtration of polydispersion aerosols by means of layers of fibrous materials have shown that the effectiveness of precipitation calculated for layers of fibrous materials have shown that the effectiveness for an ideal each individual fiber may not only be greater, but smaller than the effectiveness for an ideal each individual fibers with a correct arrangement. The reasons for the discrepancies filter made of identical fibers with a correct arrangement. The reasons for the discrepancies are analyzed. It is found from the investigation that the filtration of aerosols by means of solid layers is complicated by the presence of heterogeneities in the arrangement of the fibers, which layers is complicated by the presence of heterogeneities in the arrangement of the efficiency of the in some cases leads to a drop in the efficiency of the layer compared to the efficiency of the insome cases leads to a drop in the efficiency of the layer compared to the efficiency of the insome cases leads to a drop in the efficiency of the layer compared to the efficiency of the insome cases leads to a drop in the efficiency of the layer compared to the efficiency of the insome cases leads to a drop in the efficiency of the layer compared to the efficiency of the insome cases leads to a drop in the efficiency of the layer. This circumstance does not make it possible to ideal layer with correctly arranged layers. This circumstance does not make it possible to ideal layer with correctly arranged layers. This circumstance does not make it possible to ideal layer with correctly arranged layers. This circumstance does not make it possible to ideal layer with correctly arranged layers. This circumstance does not make it possible to ideal layer with correctly arranged layers. This circumstance does not make it possible to ideal layer with correctly arranged layers.	AUTHOR: Radushkevich. L. V.  ORG: Institute of Physical Chemistry, Academy of Sciences SSSR (Institut fizicheskoy khimii Akademii nauk SSSR)  TITLE: The significance of linear diffusion in filtration of aerosols by layers of fibrous
layers of fibrous materials have shown be greater, but smaller than the effectiveness for all ideal each individual fiber may not only be greater, but smaller than the effectiveness for all ideal each individual fibers with a correct arrangement. The reasons for the discrepancies filter made of identical fibers with a correct arrangement. The reasons for the discrepancies are analyzed. It is found from the investigation that the filtration of aerosols by means of solid layers is complicated by the presence of heterogeneities in the arrangement of the fibers, which in some cases leads to a drop in the efficiency of the layer compared to the efficiency of the in some cases leads to a drop in the efficiency of the layer compared to the efficiency of the in some cases leads to a drop in the efficiency of the layer compared to the efficiency of the in some cases leads to a drop in the efficiency of the layer compared to the efficiency of the insome cases leads to a drop in the efficiency of the layer compared to the efficiency of the insome cases leads to a drop in the efficiency of the layer compared to the efficiency of the insome cases leads to a drop in the efficiency of the layer compared to the efficiency of the insome cases leads to a drop in the efficiency of the layer compared to the efficiency of the insome cases leads to a drop in the efficiency of the layer compared to the efficiency of the insome cases leads to a drop in the efficiency of the layer compared to the efficiency of the efficiency of the layer compared to the efficiency of the efficiency of the layer compared to the efficiency of the efficiency of the layer compared to the efficiency of the efficiency of the layer compared to the efficiency of the effectiveness found for individual isolated shift unconditionally in the calculations from the effectiveness found for individual isolated shift unconditionally in the calculations from the effectiveness found for individual isolated shift unconditionally in the calculations from the effectiveness	SOURCE: Zhurnal fizicheskoy khimii, v. 40, no. 2, 1966, 317-321  TOPIC TAGS: aerosol, filtration, filter  ARSERACT: Experiments on the study of the filtration of polydispersion aerosols by means of
UDC 543. 183+543. 544	layers of fibrous materials have shown as the smaller than the effectiveness for all ideal each individual fiber may not only be greater, but smaller than the effectiveness for all ideal each individual fiber may not only be greater, but smaller than the effectiveness for the discrepancie filter made of identical fibers with a correct arrangement. The reasons for the discrepancie are analyzed. It is found from the investigation that the filtration of aerosols by means of self-are analyzed. It is found from the investigation that the filtration of aerosols by means of self-are in some cases leads to a drop in the efficiency of the layer compared to the efficiency of the in some cases leads to a drop in the efficiency of the layer compared to the efficiency of the ideal layer with correctly arranged layers. This circumstance does not make it possible to ideal layer with correctly arranged layers. This circumstance does not make it possible to obtain a propositionally in the calculations from the effectiveness found for individual isolated.
	UDC 543. 183+543. 544

L 32827-56	
ACC NR: AP6008089	7
linear diffusion in the layer, which is in agreement with direct statistical analysis proposed for the <u>sorption</u> in layers of granulated sorbents. The considerations given (which are validated for volumetric layers) make it possible to explain the observed decrease in the effectiveness calculated for fibers as compared to the effectiveness for ideal fibers. Orig. art. has: 8 formulas.	đ j
SUB CODE: 07 / SUBM DATE: 20Dec64 / ORIG REF: 006 / OTH REF: 001	
	1
200	
Card 2/2 9 9	

source cope: | en/6020/66/170/0611/0575/6573 ACC NR: AP0032281 AUTHOR: Radonakevich, L. V. ONG: Institute of Physical Chemistry, Academy of Sciences, SSSR (Institut fizicheskoy khimii AN SSSR) TITLE: Filtration of aerosols with fibrous filters in the presence of electrical discharges on the fibers SOURCE: AN SSSR. Doklady, v. 170, no. 2, 1966, 375-378 TOPIC TAGS: physical chemistry, aerosol, filtration, electric discharge ABSTRACT: A mathematical treatment is presented of certain electrical phenomena in aerosol filtration. These phenomena are studied under varying conditions such as: small concentrations of a monodispersed aerosol, residual humidity of the air and moistness of the filter, secondary phenomena, dielectric properties of the fibers, discharge conditions, and current losses. [WA-50; CBE No. 12] 07/ SUBM DATE: 30Dec65/ ORIG REF: 002/ SUB CODE: 541.182.2/3+542.67.047.5 UDC: Card <u>1/1</u>

AUTHOR: Radushkevich, L. V.

ORG: Institute of Physical Chemistry, Academy of Sciences, SSSR (Institut fizicheskoy khimii AN SSSR)

TITLE: Filtration of aerosols with fibrous filters in the presence of electrical discharges on the fibers

SOURCE: AN SSSR. Doklady, v. 170, no. 2, 1966, 375-378

TOPIC TAGS: physical chemistry, aerosol, filtration, electric discharge

ABSTRACT: A mathematical treatment is presented of certain electrical phenomena in aerosol filtration. These phenomena are studied under varying conditions such as: small concentrations of a monodispersed aerosol, residual humidity of the air and moistness of the filter, secondary phenomena, dielectric properties of the fibers, discharge conditions, and current losses.

[WA-50; CBE No. 12]

SOURCE CODE: UR/0020/66/170/002/0375/0378

SUB CODE: 07/ SUBM DATE: 30Dec65/ ORIG REF: 002/

ACC NR: AP6032281

ord 1/1 UDC: 541.182.2/3+542.67.047.5

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ACC NR: AP5022852

SOURCE CODE: UR/0375/65/000/009/0071/0075

AUTHOR: Radushkevich, R. B. (Captain)

ORG: none

TITLE: Repair operations outside the pressure hull of a submarine

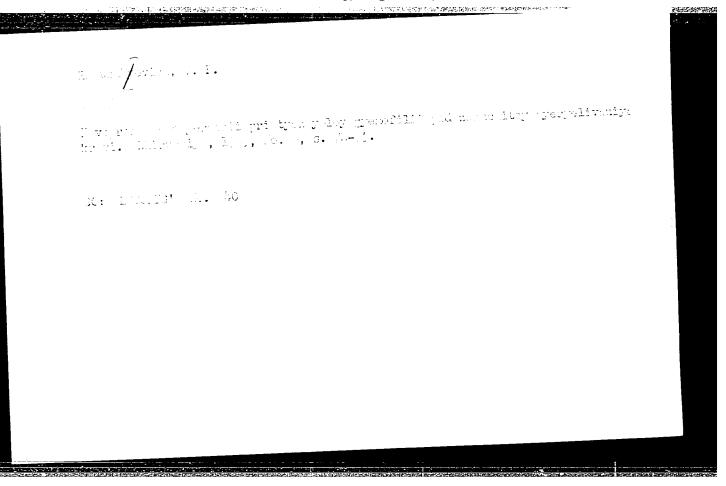
SOURCE: Morskoy sbornik, no. 9, 1965, 71-75

TOPIC TAGS: safety harness, military training, military operation, ship navigation, SUBMARINE, SHIPBUILDING ENGINEERING

ABSTRACT: Considerations involved in making repairs outside the pressure hull of a submarine during a long cruise are discussed. Safety of the repair personnel is a major concern. The personnel should be carefully selected for their skill, discipline, and ability to handle themselves on wet decking. The repair party should be thoroughly briefed on the specific requirements of the repair operation, and simple but reliable communications should be established. The repair equipment, assembled before leaving home port, should include flashlights, protective clothing, safety line and harnesses, long hoses for the pneumatic tools, long cables for the welding units, etc. A team should be assembled in the compartment adjacent to the damaged section so as to render assistance and maintain communications. The executive officer usually exercises technical control, and the captain, stationed on the bridge, maintains contact with all groups and navigates the submarine so as to minimize the

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naparity manual, T. P.

MSSF/Medicine - Mlood Transfusi n

Sep/Oct 51

"Effect of Thood Components on the late of Gridation of Ascorbic Acid," F. T. Tukhenko, M. M. Priss, M. P. Radushkevich, Chair of Biochem, Movesibirsk Med Inst, and Movesibirsk Ploof Transfusion Sta

"Biokhim" Vol XVI, No 5, or 385-389

Citrates as compared with phosphates inhibit oridation of ascerbic acid (I) in the presence of undestroyed crythrocytes and their hemolysates and in their absence. Those blood, plasma, crythrocytes and their hemolysates, coverings and content of erythrocytes inhibit, but do not prevent oxidation of I. It is probable that in addn to catalase, amine acids, and sulfhydrol croups, blood proteins (particularly linoid-protein complexes of crythrocyte coverings) play an essential role in stabilizing I in blood.

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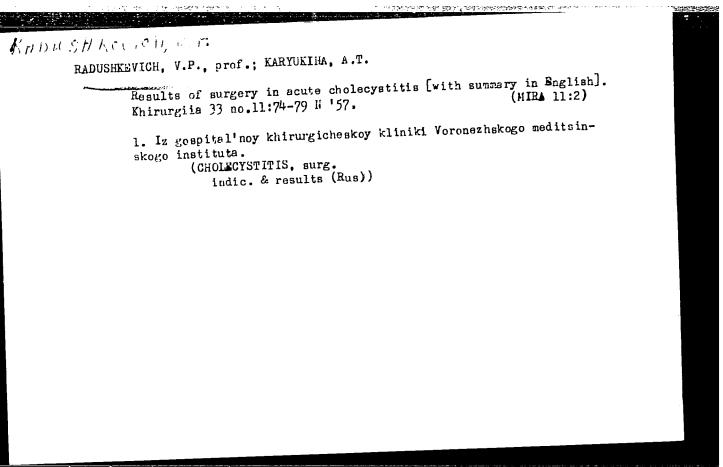
RADUSHKEVICH. V. P., prof.

Method of pressing the blood into the ascending worta in clinical death and in marginal agonal states. Thirurgia no.12:75-78 D (MLRA 8:4)

1. Iz gospital noy khirurgicheskoy kliniki (zav. prof. V. P. Radushkevich) Voronezhskogo meditsinskogo instituta.

(RESUSCITATION.

pressing of blood into ascending aorta in clin. death & marginal agonal states)



```
Results of forced injection of blood and fluids into the arterial system in terminal states [with summary in English]. Vest.khir. (MIRA 11:9)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. V.P. Radushkevich) Voronezhskogo meditsinskogo instituta.

(BLOOD TRANSFUSION.

intra-arterial forced, in agonal states (Rus))

(INFUSIONS, PARENTERAL,

same (Rus))

(RESUSCITATION.

intra-arterial forced blood transfusion in parenteral infusion in agonal cond. (Rus))
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RADUSHKEVICH, V.P., prof.

Direct massage of the heart in overall measures for resuscitation. Nov. khir. (MIRA 12:7) arkh. no.2:28-34 Mr-Ap '59.

1. Kafedra gospital'noy khirurgii (zav. - prof. V.P. Radushkevich) Voronezhskogo meditsinskogo instituta. (HEART-SURGERY) (RESUSCITATION)

Radushk: 71CH, V.P., prof. (Voronezh, ul.Plekhanovskaya, d.19, kv.32)

Orgen apparatus KP-24 in medical practice. Nov.khir.arkh.
no.3:106-107 My-Je '59. (MIRA 12:10)

1. Kafedra gospital'noy khirurgii Voronezhskogo meditsinskogo instituta. (OXYGEN-THERAPEUTIC USE)
(HEDICAL INSTRUMENTS AND APPARATUS)

```
RADUSHKEVICH, V.P., prof. (Voronezh, ul. Plekhanovskaya, d.19, kv.32);

VUL'F, N.N.

Local hypothermia in ischemic conditions of the extremities. Nov.
khir.arkh. no.5:53-59 S-0 '59.

1. Kafedra gospital'noy khirurgii (zaveduyushchiy - prof. V.P. Radushkevich) Voronezhskogo meditsinskogo instituta.

(HYPOTHERMIA) (EXTREMITIES (ANATOMY)--SURGERY)
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RADUSHKEVICH, V.P. (Voronezh (obl.), ul.Plekhanovskaya, d.19, kv.32)

Plombage of the pleural cavity using porolon. Nov. khir. arkh.
no.3:60-65 My-Je '60. (MIRA 15;2)

1. Klinika gospital noy khirurgii (zav. - prof. V.P.Radushkevich)

Voronezhskogo meditsinskogo instituta.
(PLASTICS IN MEDICINE) (PLOMBAGE (SURGERY))

(PLEURAL\_SURGERY)

RADUSHKEVICH, V.P., prof. (Voronezh, ul.Plekhanovskaya, d.19, kv. 32);

KOSONOGOV, L.F.

Potentiated anesthesia in surgery. Now. khir. arkh. no.5:37-44, 3-0
(MIRA 14:12)

1. Kafedra fakul'tetskoy khirurgii (zav. = prof. V.P.Radushkevich)
Voronezhskogo meditsinskego instituta.

(ANESTHESIA)

RADUSHKEVICH, V.P., prof.; HISDLEW, V.T., Rand. med. neak

Management of panetrating injuries of the clost in
peacetime. Kn rangilin no.1:56-58 '63. (MIRA 17:5)

1. In projections they kitmungleheckey klinik! (say. - prof. V.P.
Entiable when Verscouttroops medicatesk pe institute.

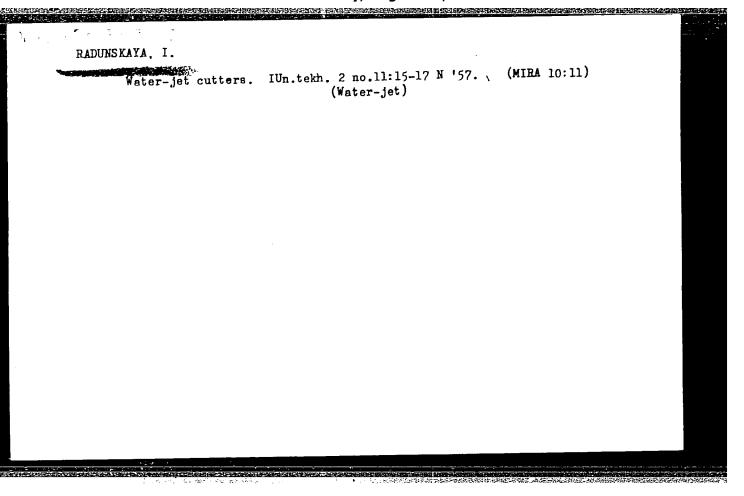
RADUSHKEVICH, V.P., prof.; KOSONOGOV, L.F.; BONDARENKO, V.V.; VASHANTSEV, A.A.; SLIVKIN, A.V.; STARYKH, V.S.

Use of new Soviet ganglionic blocking preparations in surgical practice. Khirurgiia 39 no.7:13-19 J1'63 (MIRA 16:12)

1. Iz kafedry gospital noy khirurgii (zav. - prof. V.P.Radushke-vich) Voronezhskogo meditsinskogo instituta.

ZINSVICH, A.M.; KOZLOVSKAYA, A.A.; RADUSHNOVA, T.A.

Composition and use of the anti-corrosive polydiene-bitumen mastic. Biul. tekh.-ekon.inform.Gos. nauch.-issl. inst. nauch. i tekh. inform. 18 nc.6:8-9 Je '65. (MIRA 18:7)



RADIS-ZEN'KOVICH, A., general-mayor inzhenerno-tekhnicheskoy sluzhby,

Story of the development of tanks ("Tanks" by V.D. Mostovenko.

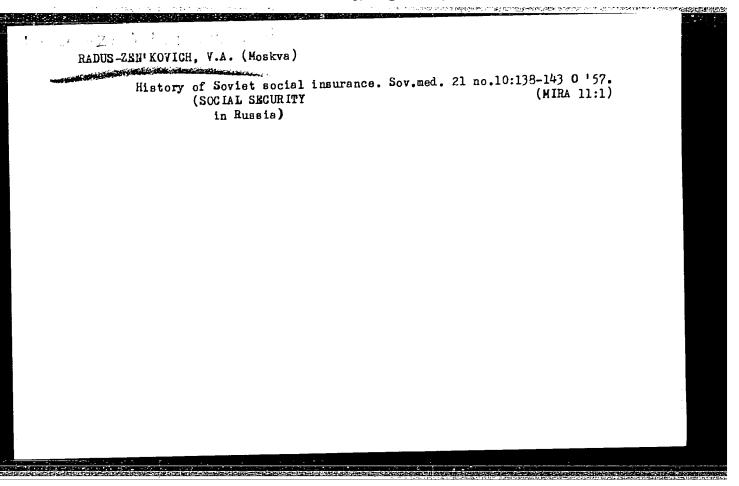
Reviewed by A. Radus-Zen'kovich), Tankist no.5:62-64 My '56.

(Tanks (Military science))

(Mostovenko, V.D.)

Towards the fulfillment of V.I.Lenin's instructions concerning the protection of labor and the workers' health and life. Zdrev. Ros. Feder. 1 no.9:25-28 S '57.

(LABOR AND LABORING CLASSES--MEDICAL CARE)



\$/081/62/000/013/042/054 B156/B101

AUTHORS:

Radushnova, T. A., Lepikhova, L. A., Zhuraleva, Ye. S.

TITLE:

A new standard for petroleum bitumens

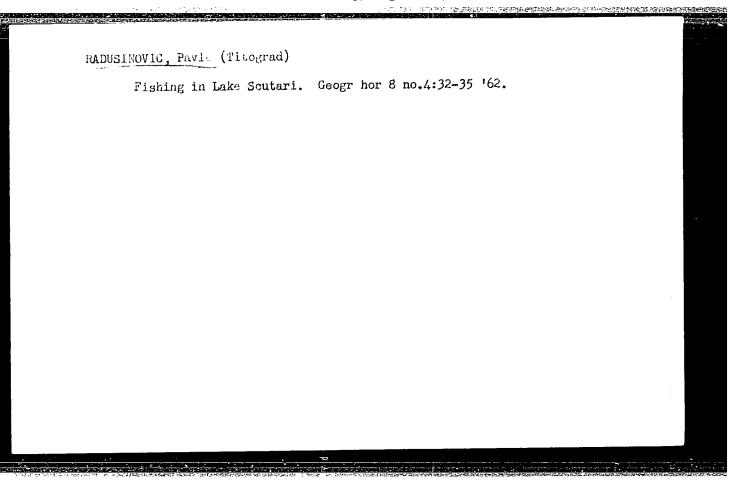
PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 13, 1962, 532, abstract.

13M190 (Str-vo truboprovodov, no. 12, 1961, 11)

TEXT: A COCT (GOST) Standard for petroleum bitumens used in insulating oil and gas pipe lines has been prepared. This Standard provides for three grades of bitumen, more stringent requirements being made as regards needle penetration depth, extensibility, and softening point for the 6 HM-IV (BNI-IV) and 5 HM-V (BNI-V) bitumens. The BNI-IV-3 (winter) grade bitumen which has restricted paraffin ( $\leq 4$  %) and sulfur (0.2 %) contents has been introduced for all-the-year-round insulation purposes. Additional requirements are introduced restricting the saturation with water over 24 hours. [Abstracter's note: Complete translation.]

Card 1/1



ALTI, C.

A new series of crane engines. p. 170.

\*\*CTROTEUMICA. (Asociatia Stiintitica a Inginerilor si Tehnicierilor din Rominia si Ministerul Energiei Electrice si Industriei Electrotehnice) Bucuresti, Rumania. Vol. 6, no. 12, Dec. 1958.

Monthly List Of East European Accessions (ETAI) LC Vol. 8, No. 6, June 1959. Uncl.